

Prerequisites

Installation steps

Setup Dashboard UI for kind

kind is a tool for running local Kubernetes clusters using Docker container nodes, kind was primarily designed for testing

CI. Follow these instructions to prepare a kind cluster for Istio installation.

Kubernetes itself, but may be used for local development or

Prerequisites

- To use kind, you will also need to install docker.
- Install the latest version of kind.

Please use the latest Go version.

• Increase Docker's memory limit.

Installation steps

 $1. \ \, \text{Create a cluster with the following command:}$

default, the cluster will be given the name kind.

```
$ kind create cluster --name istio-testing--name is used to assign a specific name to the cluster. By
```

- 2. To see the list of kind clusters, use the following command:
 - \$ kind get clusters
 istio-testing
- 3. To list the local Kubernetes contexts, use the following command.

CURRENT NAME
NAMESPACE

* kind-istio-testing kind-istio-testing minikube kind-istio-testing minikube minikube

kind is prefixed to the context and cluster names,

\$ kubectl config get-contexts



cluster kubectl talks to. You can set a default cluster for kubectl by setting the current context in the Kubernetes kubeconfig file. Additionally you can run following command to set the current context for kubectl.

\$ kubectl config use-context kind-istio-testing
Switched to context "kind-istio-testing".

Once you are done setting up a kind cluster, you can proceed to install lstio on it.

5. When you are done experimenting and you want to delete the existing cluster, use the following command:

```
$ kind delete cluster --name istio-testing
Deleting cluster "istio-testing" ...
```

Setup Dashboard UI for kind

view your cluster. Follow these instructions to setup Dashboard for kind.

kind does not have a built in Dashboard UI like minikube. But you can still setup Dashboard, a web based Kubernetes UI, to

\$ kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashbo

```
ard/v2.1.0/aio/deploy/recommended.yaml

2. Verify that Dashboard is deployed and running.
```

1. To deploy Dashboard, run the following command:

	S AGE			
	dashboard-metrics-scraper-76585494d8-zdb66 39s	1/1	Running	0
	kubernetes-dashboard-b7ffbc8cb-z18zg 39s	1/1	Running	0
3.	. Create a ClusterRoleBinding to provide admin access to the			

READY

RESTART

STATUS

\$ kubectl get pod -n kubernetes-dashboard

NAME

newly created cluster.

\$ kubectl create clusterrolebinding default-admin --clusterrole cluste

```
r-admin --serviceaccount=default:default

4. To login to Dashboard, you need a Bearer Token. Use the
```

. To login to Dashboard, you need a Bearer Token. Use the following command to store the token in a variable.

```
tions['kubernetes\.io/service-account\.name']=='default')].data.token}
 "|base64 --decode)
Display the token using the echo command and copy it to
use for logging into Dashboard.
```

\$ token=\$(kubectl get secrets -o jsonpath="{.items[?(@.metadata.annota

\$ echo \$token

\$ kubectl proxv

Starting to serve on 127.0.0.1:8001

```
5. You can Access Dashboard using the kubectl command-
  line tool by running the following command:
```

```
Click Kubernetes Dashboard to view your deployments and
```

services.



You have to save your token somewhere, otherwise you have to run step number 4 everytime you need a token to login to your Dashboard.